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OEL-1280/64

21 DEC 1964

MEMORANDUM FOR: Director of Logistics

SUBJECT : Negotiation of Contract with 25X1A5a1
[REDACTED]

25X1A5a1 1. This memorandum requests that a contract be negotiated with [REDACTED] for the development of a Selective Time Domain Signal Filtering System. The contract will provide financing for the design of the filtering system and for breadboard prototyping as described in Technical Proposal [REDACTED]

25X1A5a1

2. The Assistant Director for ELINT has conducted, through commercial contractors, extensive research and development leading to the configuration of highly sophisticated receivers for ELINT applications. Techniques for strong signal suppression have not, however, paralleled the Agency's investment in certain of these receiving systems. Consequently, receivers used in certain applications tend to become saturated which seriously degrades performance levels. The intent of the contract described herein is to design a selective filtering system capable of blanking or cancelling unwanted signals. Refinement of the filtering technique will enhance the efficiency of intercept operations, thereby improving the quality of intelligence acquired in consequence thereof.

3. Solicitation of the attached proposal was made on the basis of sole source because it involves the organization and application of techniques proprietary to the corporation. For example, signal blanking is attained through the application of complex circuitry, delay line techniques, and the PIN diode which enables signal to be blanked at RF prior to receiver input. Other known contractors are not known to have employed this approach. Laboratory demonstrations of the concepts involved have proven satisfactory and are believed adaptable to our unique applications. Specifications for the filtering system are contained in attachment 5 to the contractor's proposal.

4. The contract calls for the delivery of Government Furnished Equipment (CFE) to the contractor. The APR-9 receiver requested by the contractor from government sources will be used as a receiver

OEL-1280/64
Page Two

in the design and test of the filtering system. The AN/APA-74 will be used for the display of signals and will also be used in the design and test program. GFE will be processed to the contractor as a separate action.

25X1A1a

5. ELR-234-64, attached, substantiates the [REDACTED] this Office has encumbered to execute the contract. Agency association with the contract is to be classified CONFIDENTIAL. Hardware produced in consequence thereof is to be UNCLASSIFIED. Reports are to be classified in accordance with guidance furnished by the Project Officer.

25X1A9a

6. [REDACTED] extension 4518, has been designated Project Officer for the contract and will monitor its execution.

George C. Miller

GEORGE C. MILLER
Assistant Director for ELINT
Directorate of
Science and Technology

APPROVED:

SIGNED

ALBERT D. WHEELON

7 JAN 1965

Date

Attachments:

- A. Contractor's Proposal
- B. Requisition

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